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PAPER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,264	11/26/2003	Rasmus B. Jensen	02716.0005.NPUS01	4282
27194 HOWREY LL	7590 07/02/2007 P	EXAMINER		
	ETING DEPARTMENT	JOHANNSEN, DIANA B		
2941 FAIRVIEW PARK DRIVE, SUITE 200 FALLS CHURCH, VA 22042-2924			ART UNIT	PAPER NUMBER
	,		1634	
			MAIL DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No. Applicant(s)					
		10/724,264	JENSEN ET AL.	JENSEN ET AL.			
		Examiner	Art Unit	<u> </u>			
		Diana B. Johannsen	1634				
Period for	- The MAILING DATE of this communication app r Reply	ears on the cover sheet v	with the correspondence ac	ddress			
WHIC - Extense after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 16(a). In no event, however, may a till apply and will expire SIX (6) MC cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status							
1)□.	Responsive to communication(s) filed on		·	γ			
,—	This action is FINAL . 2b) ☐ This action is non-final.						
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
ı	closed in accordance with the practice under E	x paπe Quayle, 1935 C.	.D. 11, 453 O.G. 213.	·			
Disposition	on of Claims						
4)⊠	☑ Claim(s) <u>1-22</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are allowed.						
•	Claim(s) is/are rejected.						
	Claim(s) is/are objected to.	loction requirement					
0)[Claim(s) <u>1-22</u> are subject to restriction and/or e	section requirement.					
Application	on Papers		·				
9)[] 7	The specification is objected to by the Examine	r.					
10) 🔲 🗆	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attach	ed Office Action or form P	10-152.			
Priority u	nder 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
,	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in	Application No				
	3. Copies of the certified copies of the prior	•	en received in this Nationa	l Stage			
	application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachment	• •	_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date				
3) Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		f Informal Patent Application				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-12 and 14, drawn to polypeptides, classified in at least, for example, class 530, subclass 350.
- II. Claims 13 and 15, drawn to nucleic acids, classified in at least, for example, class 435, subclass 23.5.
- III. Claims 16-20, drawn to methods of generating mutant proteins, classified in at least, for example, class 435, subclass 440.
- IV. Claim 21, drawn to methods of data storage employing a protein matrix, classified in at least, for example, class 435, subclass 287.1.
- V. Claim 22, drawn to an energy generator, classified in at least, for example, class 372, subclass 39.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions I, II and V are directed to related products. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed differ materially in structure/design and in function. The polypeptides of Invention I are composed of amino acids and function in, e.g., binding assays. The nucleic acids of Invention II are composed of nucleotides and function in,

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e.g., methods of protein synthesis or hybridization assays. The generator of Invention V, while including a protein component, comprises a variety of additional structures (e.g., a light source, a cell membrane), and functions in, e.g., energy generation. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the polypeptides of Invention I can be made by another materially different process, such as traditional protein synthesis methods.

Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product of Invention II can be used in a materially different process, such as hybridization assays.

Inventions I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different

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process of using that product. See MPEP § 806.05(h). In the instant case, the polypeptides of Invention I can be used in a materially different process, such as methods of making antibodies.

Inventions II and IV are directed to an unrelated product and process. Product and process inventions are unrelated if it can be shown that the product cannot be used in, or made by, the process. See MPEP § 802.01 and § 806.06. In the instant case, the nucleic acids of Invention II cannot be used in or made by the storage and retrieval method of Invention IV.

Further restriction requirement applicable to Groups I-II

3. Groups I-II each encompass a multitude of patentably distinct, variant biomolecules. In particular, Group I encompasses a variety of variant polypeptides as set forth in claims 2-5, 7-10, 12, and 14, and Group II encompasses a variety of variant nucleic acids, as set forth in claim 15. In accordance with the policy set forth in 1316 OG 122 (27 March 2007), claims directed to biomolecules are considered for independence, relatedness, distinction and burden as for claims to any other type of molecule. Each of the variant biomolecules noted above differ with regard to both sequence/structure and functional characteristics as compared to each other variant biomolecule. Thus, each such molecule constitutes a distinct invention. Further, as each biomolecule would require a different sequence search, a search of more than one such biomolecule would pose a serious burden on the examiner and on the Office.

Accordingly, if any of Groups I-II is elected, Applicant must further elect a single biomolecule from those listed in the claims specified above for examination. **This is not**

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an election of species. Applicant is advised that examination of the claims noted above will be restricted to the elected biomolecule.

4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diana B. Johannsen whose telephone number is

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571/272-0744. The examiner can normally be reached on Monday and Thursday, 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached at 571/272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

Diana B. Johannsen Primary Examiner Art Unit 1634